**Sai Rishwanth Reddy Katham**

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**Professional Summary**

Motorsport data analyst with a Master’s in Data Science and 5+ years of sim racing telemetry experience. Skilled in **MoTeC i2 Pro, FastF1 Python library, and performance engineering** for race car optimization. Adept at building telemetry dashboards, analyzing driver performance, and generating actionable insights under time-sensitive track conditions. Passionate about applying data science expertise to professional motorsport teams.

**Technical Skills**

* **Motorsport Tools:** MoTeC i2 Pro, AIM Race Studio, FastF1, Assetto Corsa telemetry
* **Programming & Data:** Python (pandas, NumPy, matplotlib), SQL, R
* **Data Science & Analytics:** Machine Learning, Statistical Modeling, Data Visualization, Power BI
* **Engineering Knowledge:** Vehicle Dynamics, Performance Engineering, Race Data Workflows
* **Other Tools:** Git, Docker, Linux

**Education**

**University of Massachusetts Dartmouth** – Dartmouth, MA  
*Master of Science in Data Science* | Sep 2023 – May 2025

**Motorsport Experience & Projects**

**Sim Racing & Telemetry Analysis** | 2020 – Present

* 5+ years of sim racing experience, leveraging **MoTeC i2 Pro** for lap comparison, driver consistency analysis, and setup optimization.
* Built custom math channels to calculate understeer/oversteer balance, braking efficiency, and throttle application.
* Applied professional race engineering practices to sim racing workflows.

**Formula 1 Data Analysis (FastF1 Python Analytics)** | 2023 – Present

* Performed lap time and stint analysis using telemetry data from the **FastF1 library**.
* Visualized speed, throttle, brake, and delta traces for comparative driver performance studies.
* Developed analysis notebooks replicating team-style post-session data reports.

**Performance Engineering Course** | 2024

* Completed structured training in race car performance optimization, data acquisition systems, and trackside engineering decision-making.
* Learned to prioritize quick, actionable data insights (e.g., understeer/oversteer balance) under time-sensitive conditions.

**Additional Professional Experience**

**Programmer Analyst Trainee** | Cognizant Technology Solutions | 2022 – 2023

* Built and maintained **ETL pipelines** and data dashboards, transferable to motorsport telemetry data ingestion and reporting.
* Automated workflows with **Python and SQL**, improving efficiency and reliability in production environments.
* Gained experience working in cross-functional technical teams with high performance demands.